

CLAIMS

1. A computer-readable storage medium containing instructions that are executable by a computer to perform steps comprising:

sending an HTTP request that includes geographical coordinates of a mobile client;

receiving from a server, geographically-dependent content that is customized to the geographical coordinates in the HTTP request, the geographically-dependent content including a valid zone indicator indicating an area in which the geographically-dependent content is valid;

comparing a current location of the mobile client to the valid zone indicator;

determining that the geographically-dependent content is no longer valid based on the comparing; and

sending a new HTTP request that includes new geographical coordinates of the mobile client.

2. A computer-readable storage medium as recited in claim 1, the steps further comprising:

receiving from a server, new geographically-dependent content that is customized to the new geographical coordinates of the mobile client, the new geographically-dependent content including a new valid zone indicator indicating a new area in which the new geographically-dependent content is valid.

1 3. A computer-readable storage medium as recited in claim 1, wherein
2 the sending an HTTP request comprises:

3 accepting a designation of hyperlinked content from a user; and
4 obtaining the geographical coordinates of the mobile client from a global
5 positioning receiver associated with the mobile client.

6
7 4. A computer-readable storage medium having stored thereon a
8 hyperlink browser program, the hyperlink browser program being executable by a
9 mobile computer to perform steps comprising:

10 accepting a designation of hyperlinked content from a user;
11 obtaining current geographical coordinates of the mobile computer from a
12 global positioning receiver associated with the mobile computer;

13 in response to user designation of hyperlinked content, sending an HTTP
14 request to a hyperlinked content network over a wireless transmission medium;
15 and

16 including the current geographical coordinates of the mobile computer in
17 the HTTP request.

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19 5. A computer-readable storage medium as recited in claim 4, wherein
20 the geographical coordinates are included in an HTTP request header along in the
21 HTTP request.

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23 6. A computer-readable storage medium as recited in claim 4, the steps
24 further comprising:
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1 receiving and rendering geographically-dependent content from the
2 hyperlinked content network as a result of the HTTP request.

3
4 7. A computer-readable storage medium as recited in claim 4, the steps
5 further comprising:

6 receiving geographically-dependent content from the hyperlinked content
7 network as a result of the HTTP request, wherein a valid zone specification is
8 returned to the hyperlink browser program in conjunction with the geographically-
9 dependent content, the valid zone specification indicating a geographical zone
10 within which the geographically-dependent content is considered valid.

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12 8. A computer-readable storage medium as recited in claim 4, the steps
13 further comprising:

14 receiving geographically-dependent content from the hyperlinked content
15 network as a result of the HTTP request, wherein a valid zone specification is
16 returned to the hyperlink browser program in conjunction with the geographically-
17 dependent content, the valid zone specification indicating a geographical zone
18 within which the geographically-dependent content is considered valid; and

19 sending a new HTTP request when the mobile computer leaves the
20 indicated geographical zone.

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22 9. A computer-readable storage medium as recited in claim 4, the steps
23 further comprising:

24 receiving geographically-dependent content from the hyperlinked content
25 network as a result of the HTTP request, wherein a valid radius is returned to the

1 hyperlink browser program in conjunction with the geographically-dependent
2 content, the valid radius indicating a radius from the current geographical
3 coordinates within which the geographically-dependent content is considered
4 valid; and

5 invalidating the geographically-dependent content when the mobile
6 computer leaves an area encompassed by the radius.

7
8 **10.** A mobile information system comprising:

9 a mobile client running a mobile hyperlink browser to communicate with
10 one or more remote servers, wherein geographically-dependent hyperlinked
11 content is available from the servers;

12 wherein the mobile hyperlink browser sends resource requests to the
13 servers; and

14 wherein a resource request from the mobile hyperlink browser includes
15 geographical coordinates indicating a current location of the mobile hyperlink
16 browser.

17
18 **11.** A mobile information system as recited in claim 10, wherein the
19 servers return geographically-dependent content having a valid zone specification
20 indicating a geographical zone within which the geographically-dependent content
21 is considered valid; and

22 the mobile hyperlink browser invalidates geographically-dependent content
23 when the mobile client leaves the geographical zone specified by the valid zone
24 specification.

1 **12.** A mobile information system as recited in claim 10, wherein the
2 servers return valid zone specifications in conjunction with returned
3 geographically-dependent content, the valid zone specifications indicating
4 geographical zones within which the returned geographically-dependent content is
5 considered valid; and

6 the mobile hyperlink browser sends a new resource request when the
7 mobile hyperlink browser leaves the geographical zone specified for particular
8 returned geographically-dependent content.

9
10 **13.** A mobile information system comprising:
11 a computer;
12 a wireless communications interface that provides communications
13 between the computer and a remote server over a wireless communications
14 medium;
15 a hyperlink browser that executes on the computer, the hyperlink browser
16 sending resource requests to the remote server over the wireless communications
17 medium;
18 a positioning receiver that generates varying geographical coordinates
19 indicating a varying location of the computer;
20 wherein the hyperlink browser includes the varying geographical
21 coordinates in at least some of the resource requests.

1 **14.** A mobile information system as recited in claim 13, wherein the
2 remote server returns a valid zone specification in conjunction with returned
3 geographically-dependent content, the valid zone specification indicating a
4 geographical zone within which the returned geographically-dependent content is
5 considered valid; and

6 the hyperlink browser invalidates returned geographically-dependent
7 content when the computer leaves the geographical zone specified for that
8 returned geographically-dependent content.

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10 **15.** A mobile information system as recited in claim 13, wherein the
11 remote server returns a valid zone specification in conjunction with returned
12 geographically-dependent content, the valid zone specification indicating a
13 geographical zone within which the returned geographically-dependent content is
14 considered valid; and

15 the hyperlink browser sends a new resource request when the computer
16 leaves the geographical zone specified for particular returned geographically-
17 dependent content.

18
19 **16.** A hyperlink browsing system comprising:
20 a plurality of servers that provide geographically-dependent hyperlinked
21 content on a wide-area network;

22 a plurality of mobile clients that communicate with the wide-area network
23 over a wireless communications medium, each mobile client having a varying
24 location, a positioning receiver that generates varying geographical coordinates
25 indicating the varying location of the mobile client, and a hyperlink browser that is

1 responsive to user designations of hyperlinked content to send an HTTP request to
2 servers and to render content that is returned in response to the HTTP request;

3 wherein the HTTP request includes current geographical coordinates of the
4 mobile client; and

5 wherein the servers select and return different geographically-dependent
6 content to the hyperlink browser in response to the HTTP request depending on
7 the geographical coordinates in the HTTP request.

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9 17. A hyperlink browsing system comprising:

10 a plurality of servers that provide hyperlinked content on a wide-area
11 network, wherein at least some of the hyperlinked content is geographically-
12 dependent;

13 a plurality of mobile clients that communicate with the wide-area network
14 over a wireless communications medium, the mobile clients having varying
15 locations;

16 the mobile clients having positioning receivers that generate varying
17 geographical coordinates indicating the varying locations of the mobile clients;

18 the mobile clients having hyperlink browsers that are responsive to user
19 designations of hyperlinked content to send HTTP requests to servers and to
20 render content that is returned in response to the HTTP requests;

21 wherein the hyperlink browser of a particular mobile client includes current
22 geographical coordinates of that mobile client in HTTP requests; and

23 wherein the servers select and return different geographically-dependent
24 content to the hyperlink browsers in response to the HTTP requests depending on
25 the geographical coordinates in the HTTP requests.

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2 **18.** A hyperlink browsing system as recited in claim 17, wherein the
3 geographical coordinates are included in an HTTP request header along with each
4 HTTP request.

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6 **19.** A hyperlink browsing system as recited in claim 17, wherein the
7 returned content includes advertising supplements, and wherein at least one of the
8 servers is configured to select advertising supplements returned to a particular
9 mobile client based on the geographical location of that particular mobile client.

10
11 **20.** A hyperlink browsing system as recited in claim 17, wherein the
12 servers return valid zone specifications in conjunction with returned
13 geographically-dependent content, the valid zone specifications indicating
14 geographical zones within which the returned geographically-dependent content is
15 considered valid.

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17 **21.** A hyperlink browsing system as recited in claim 17, wherein the
18 servers return valid radii specifications in conjunction with returned
19 geographically-dependent content, each valid radius specification indicating a
20 radius from the geographical coordinates of an HTTP request, within which a
21 returned geographically-dependent content is considered valid.

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23 **22.** A hyperlink browsing system as recited in claim 17, wherein:
24 the servers return valid zone specifications in conjunction with returned
25 geographically-dependent content, the valid zone specifications indicating

1 geographical zones within which the returned geographically-dependent content is
2 considered valid; and

3 the hyperlink browser of a particular mobile client sends a new resource
4 request when that mobile client leaves the geographical zone specified for
5 particular returned geographically-dependent content.

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7 **23.** A hyperlink browsing system as recited in claim 17, wherein the
8 returned geographically-dependent content comprises a listing of mobile users in
9 proximity to requesting mobile clients.

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11 **24.** A hyperlink browsing system as recited in claim 17, wherein at least
12 one of the servers maintains a database indicating current locations of different
13 mobile clients based on the HTTP requests submitted by said clients, and wherein
14 the returned geographically-dependent content comprises a listing of mobile
15 clients in proximity to requesting mobile clients.